

AMENDMENT OF THE SPECIFICATION

Applicant respectfully requests that the following amendments to the specification be entered. The amendments clarify correlations between discussions in the text and representations in the figures and do not add new matter.

[0023] Routing table 112 may include a database that contains the current network topology, to direct packets of a data transmission out the appropriate port. Router 110 may determine the appropriate path 102 onto which data 107 should be forwarded from routing table 112 based upon a routing protocol. The routing protocol may also allow the network to dynamically adjust to changing conditions by describing how routers share updated information about the topology. For instance, routing table 112 may indicate a route 102 from processor card 105 to processor card 170 via read port 120, write port 130, read port 150, and write port 160.

[0027] Once global link control 116 determines data transmission characteristics such as the traffic type, the data frequency, and the route 102 for data 107, global link control 116 may determine a power mode for ports 120, 130, 150, and 160 to correlate power consumption with the characteristics or constraints of transmission of data 107. More specifically, when the traffic type is difficult such as the long strings of logical ones and zeroes or the data frequency is high, more complex logic and circuitry of link circuits 124, 134, 154, and 164 may be powered with higher voltages and clocked with higher clock frequencies to handle the data transmission. In such situations, a standard power mode may be selected and an indication of the standard power mode may be transmitted in a control signal to ports 120, 130, 150, and 160.